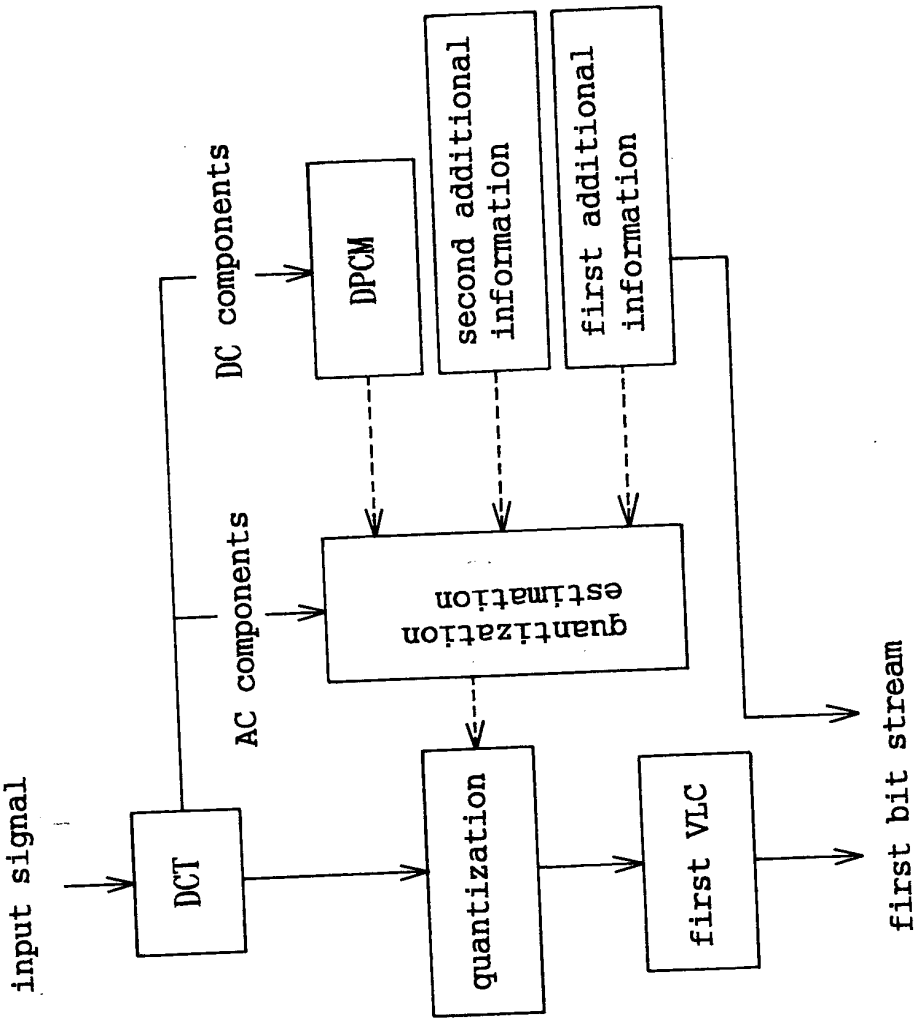


Fig. 1

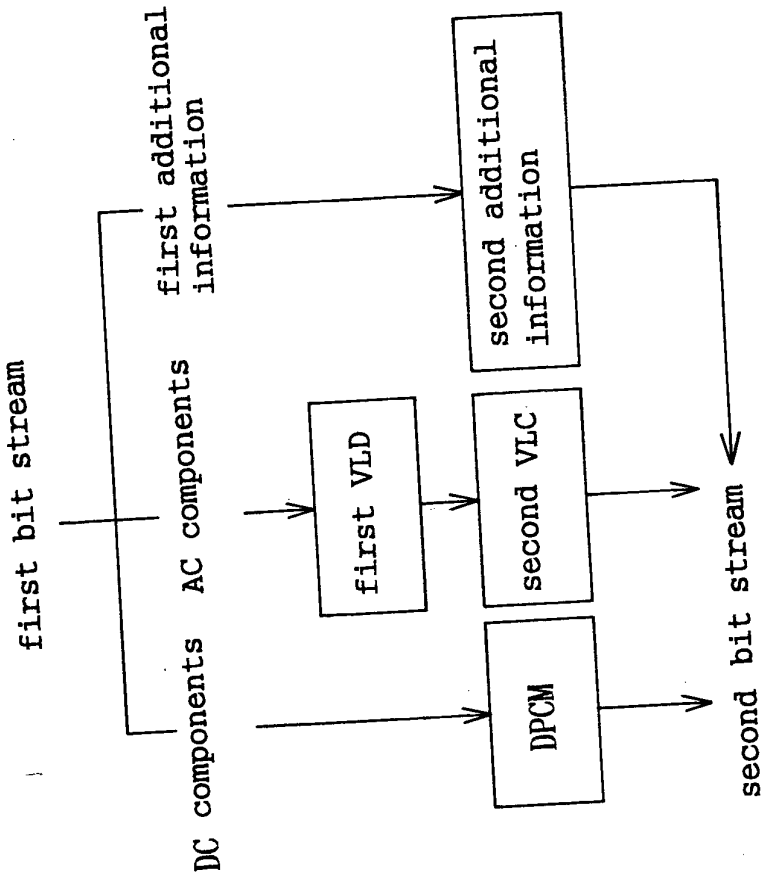


Fig. 2

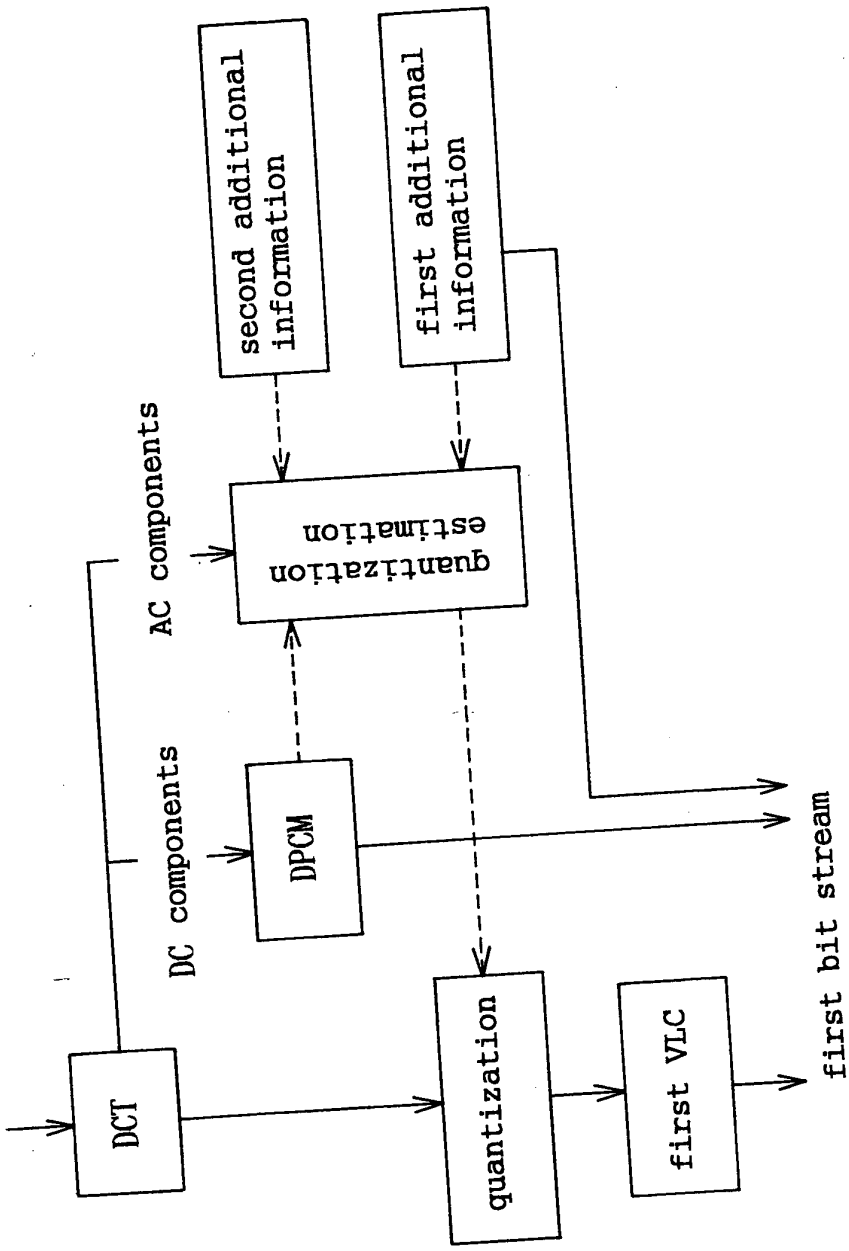


Fig. 3

Fig. 4

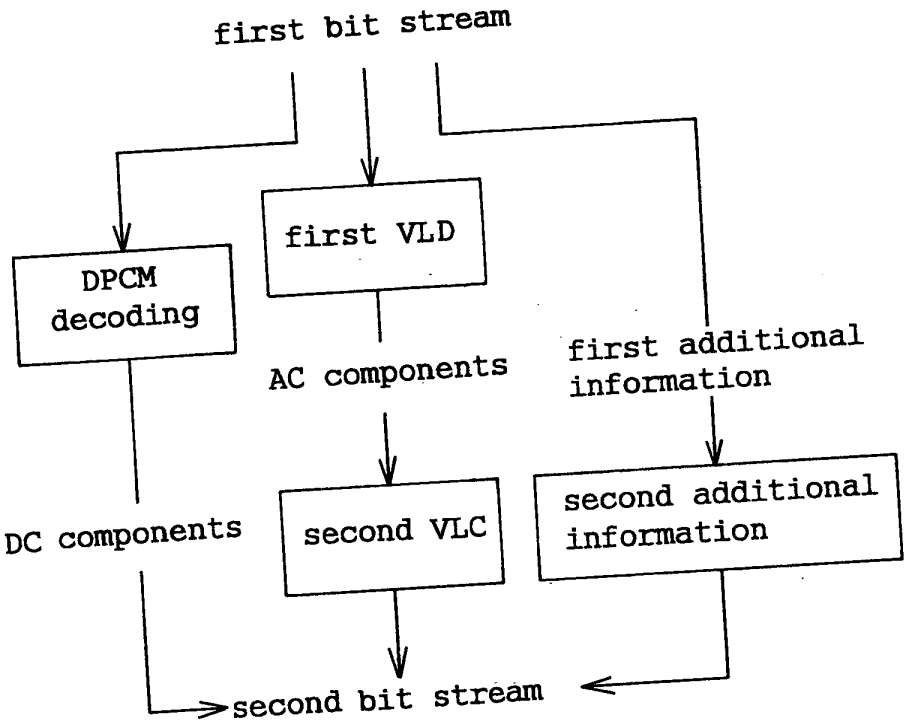


Fig. 5

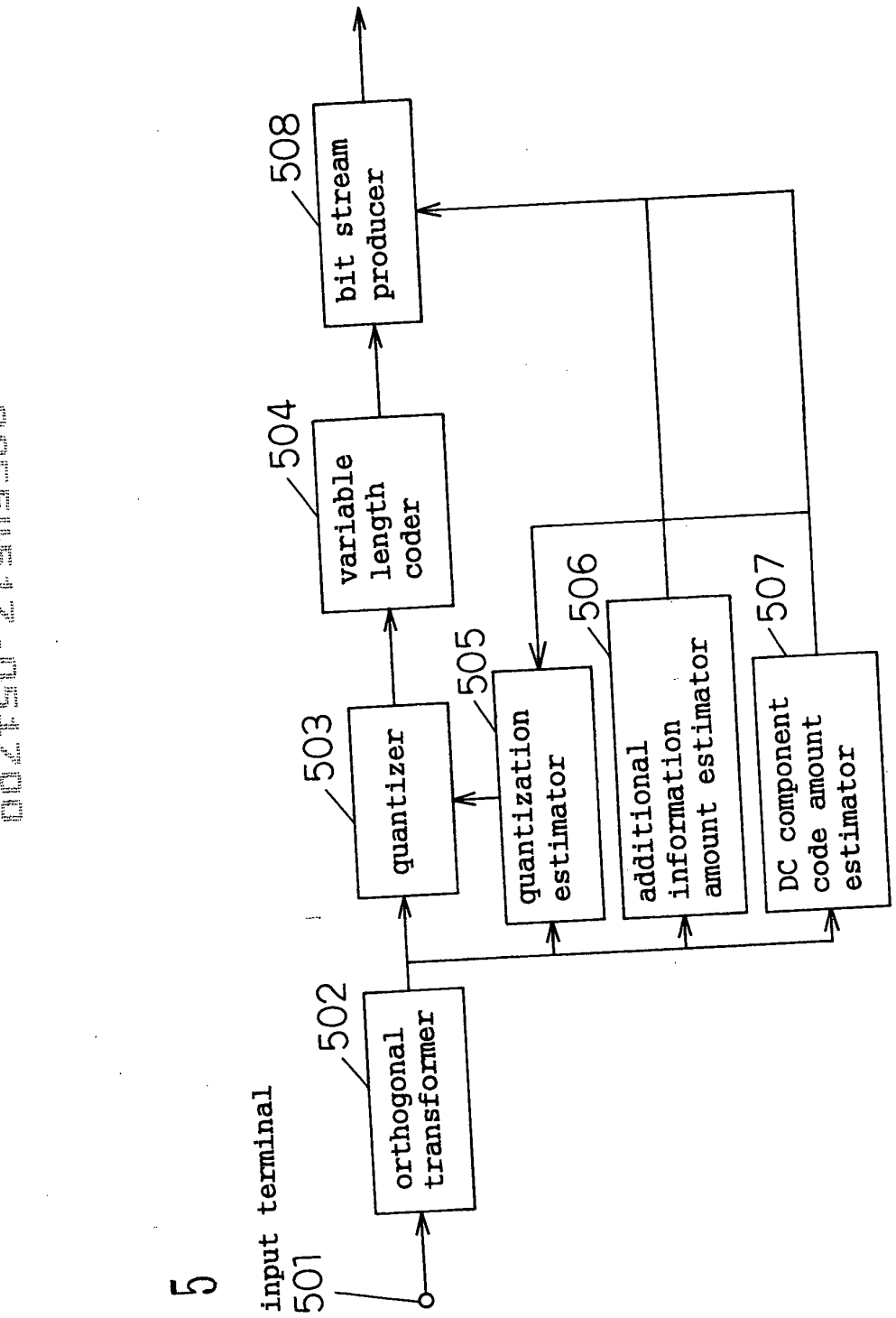


Fig. 6

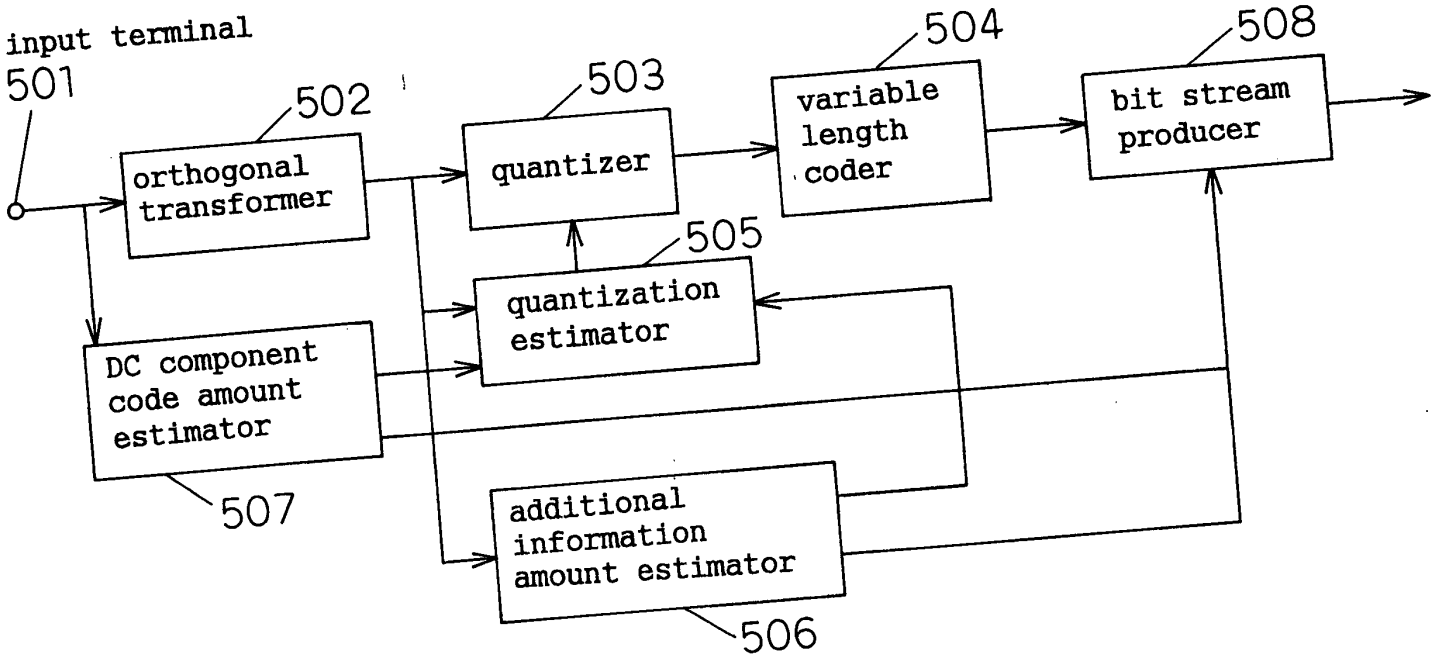
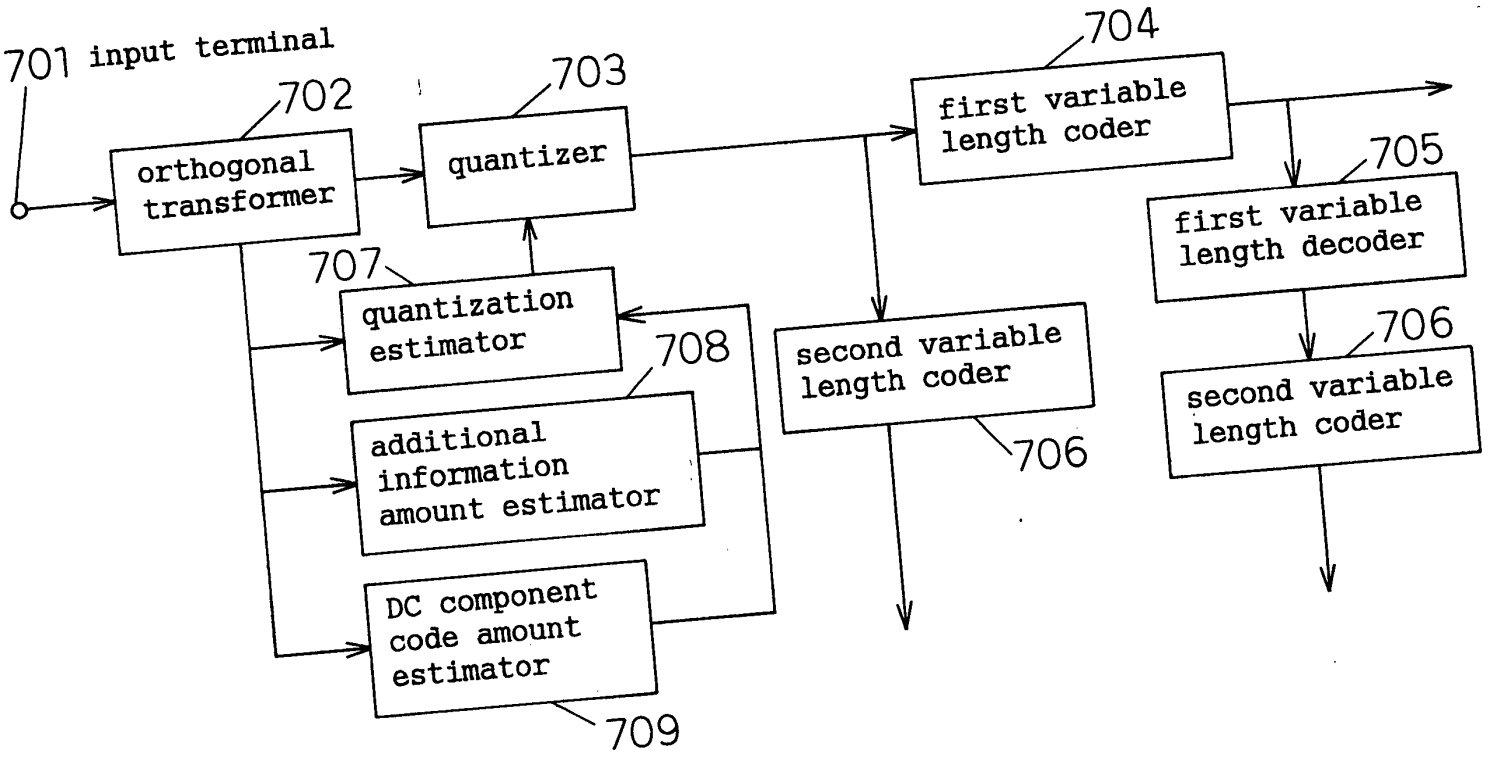


Fig. 7


701 input terminal
702
orthogonal transformer
703
quantizer
704
first variable length coder
705
first variable length decoder
706
second variable length coder
706
second variable length coder
707
quantization estimator
708
additional information amount estimator
DC component code amount estimator
709

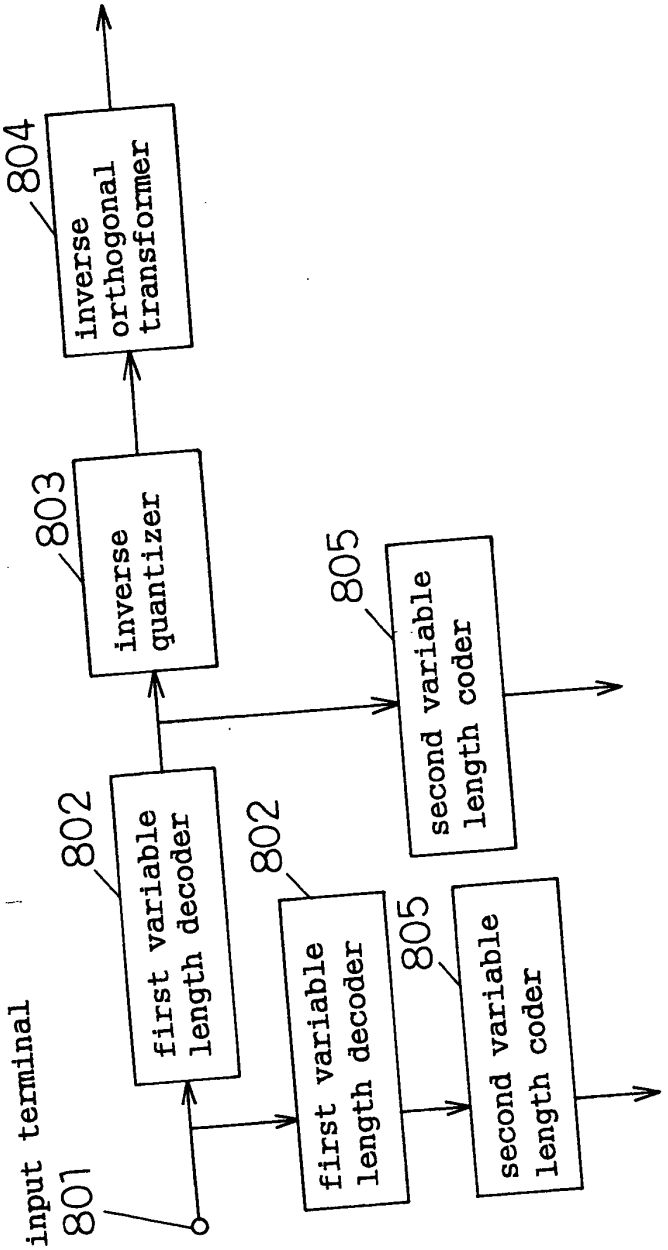
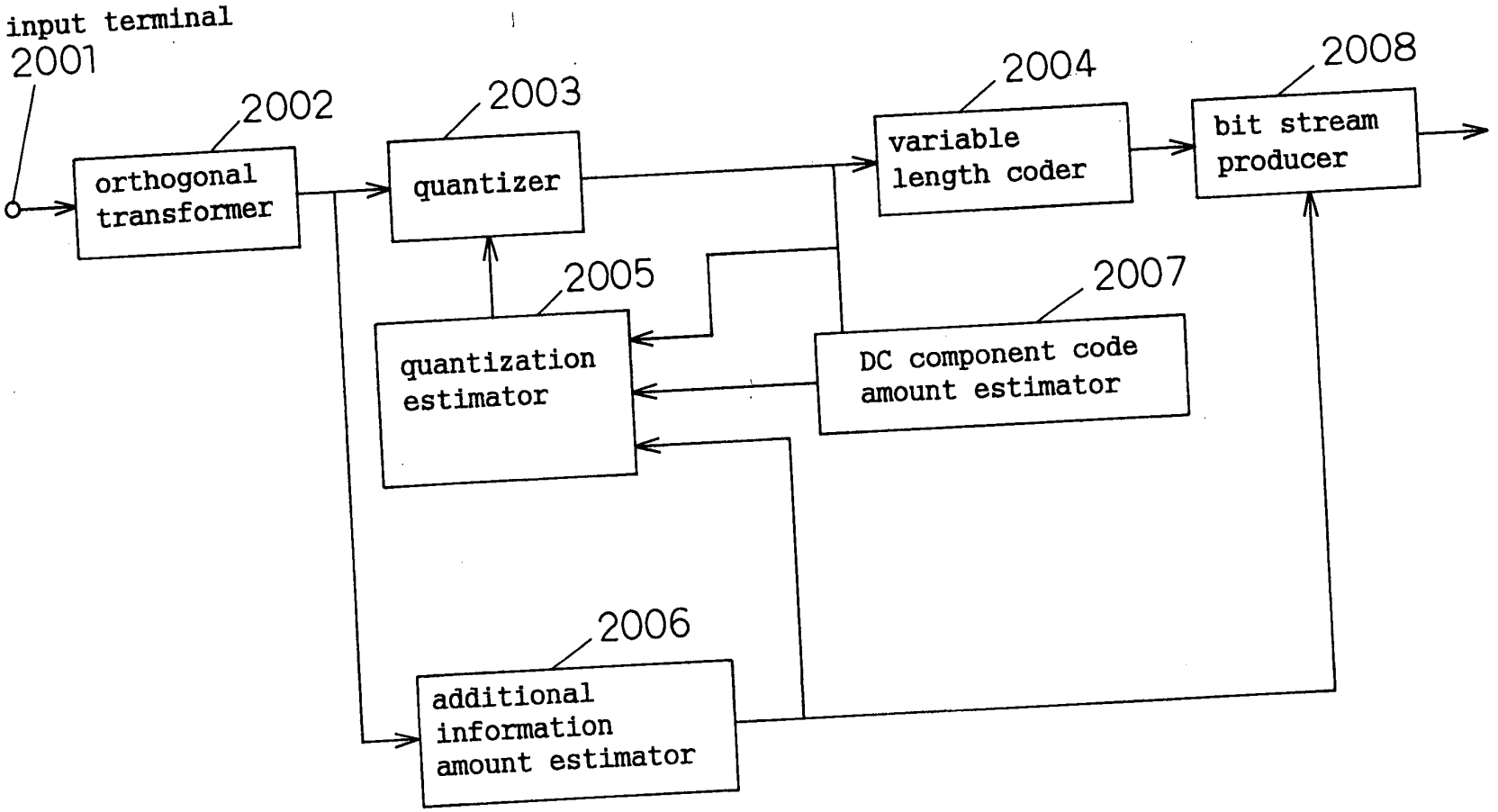


Fig. 8

second additional information amount
first additional information amount
quantization estimation
AC components
DPCM
information of quantizer
DC components
DCT
quantization
first VLC
first bit stream

Fig. 9

Fig. 10



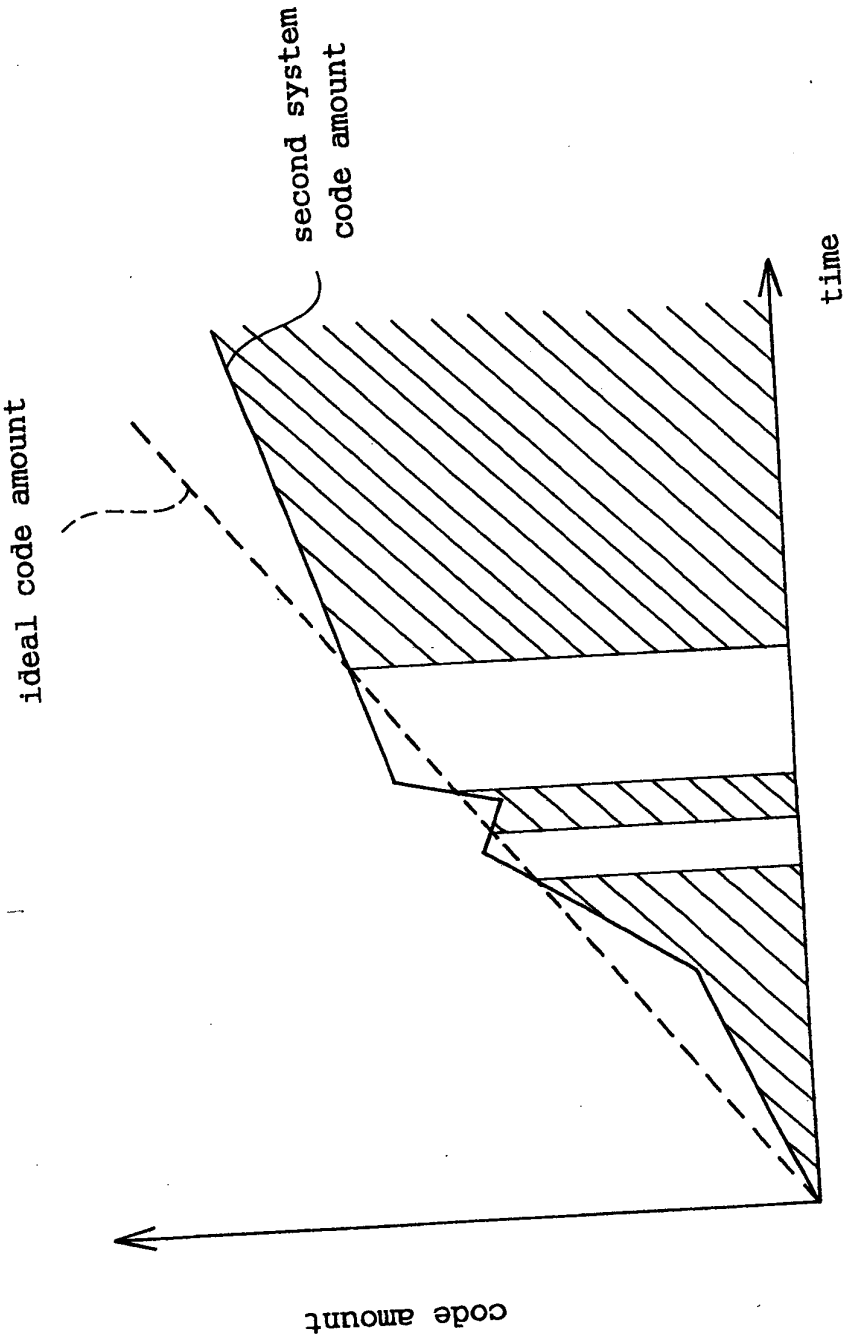
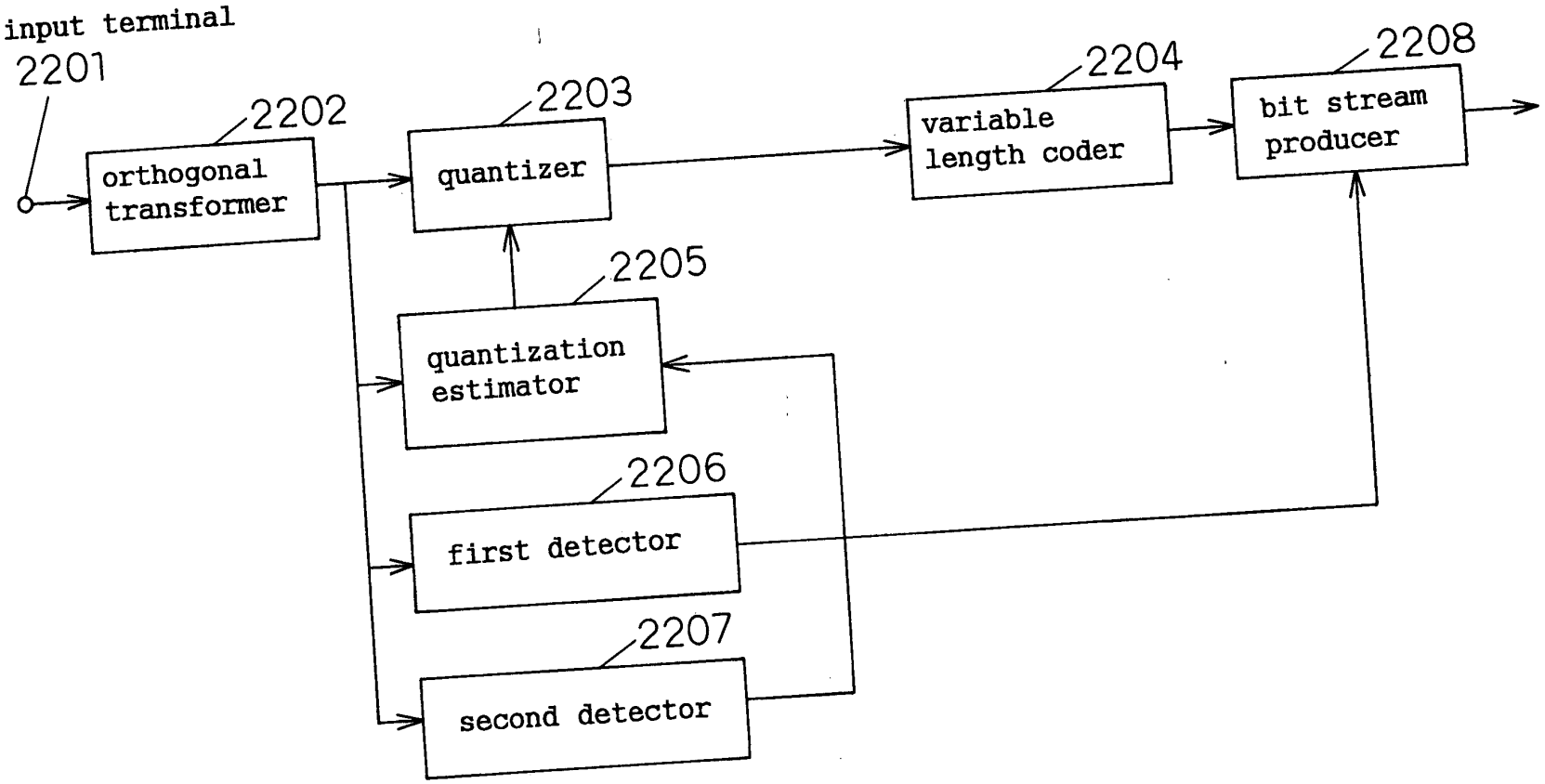


Fig. 11

Fig. 12


input terminal
2201
2202
orthogonal transformer
2203
quantizer
2204
variable length coder
2208
bit stream producer
2205
quantization estimator
2206
first detector
2207
second detector

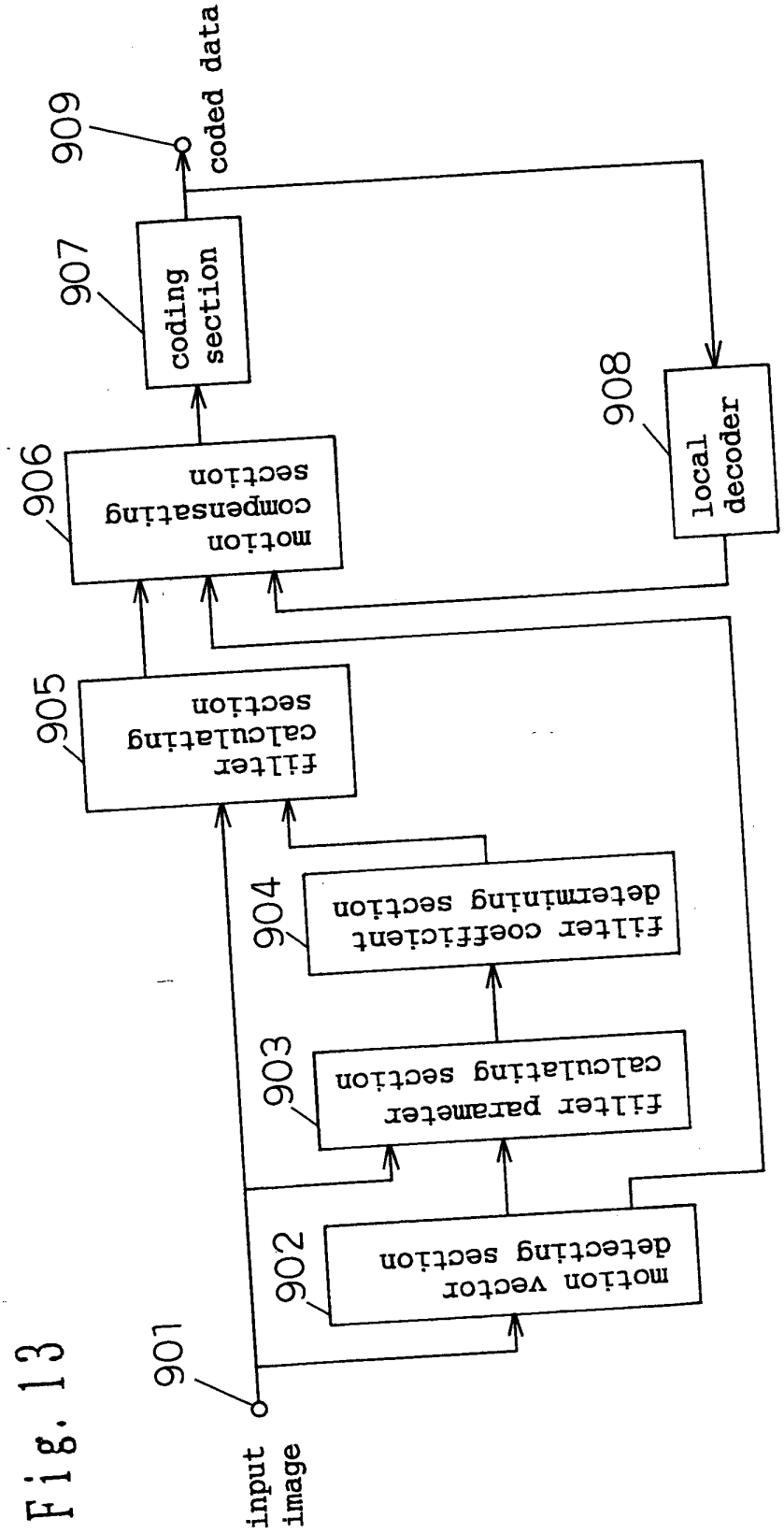


Fig. 13

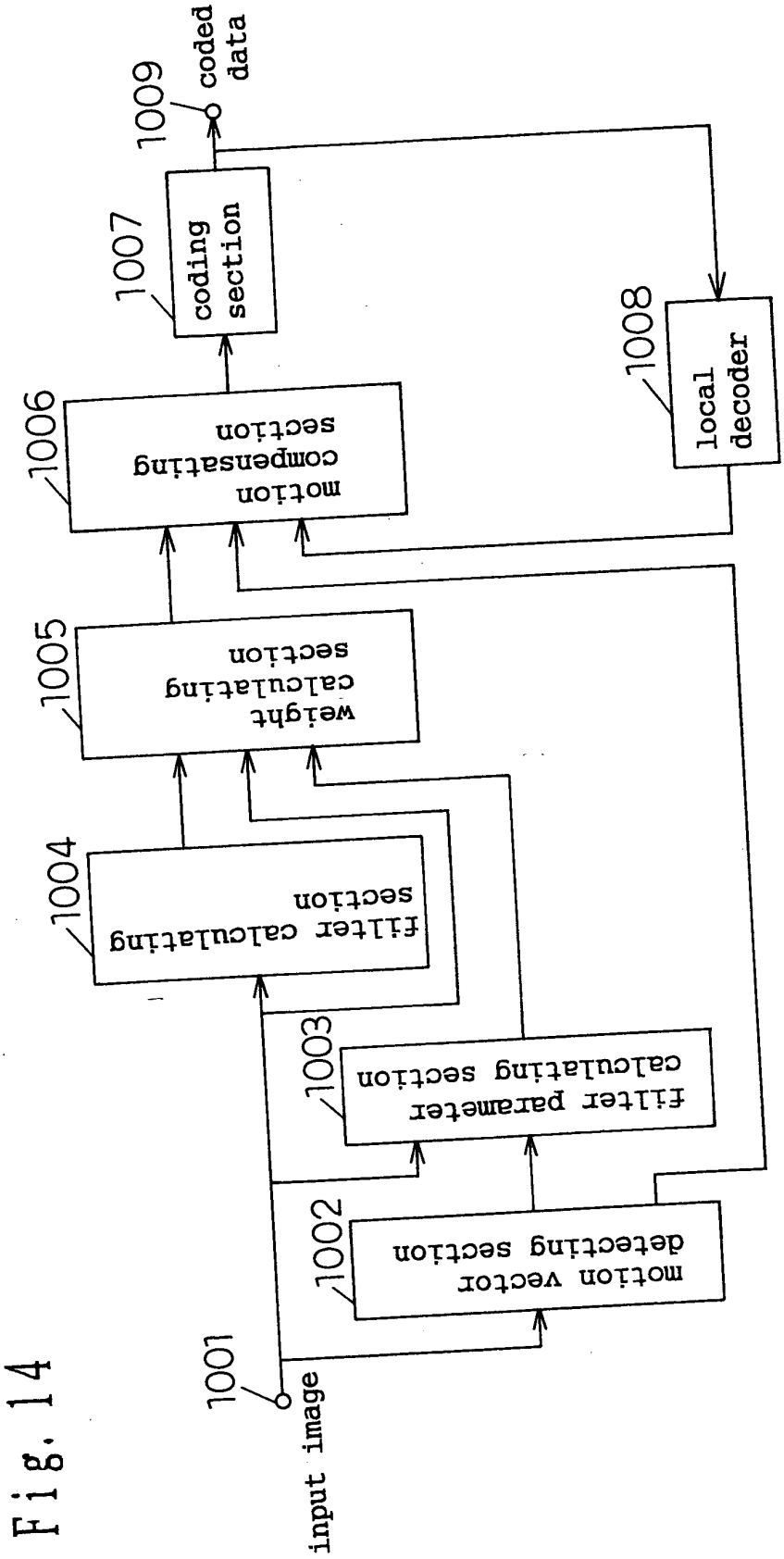


Fig. 14

Fig. 15

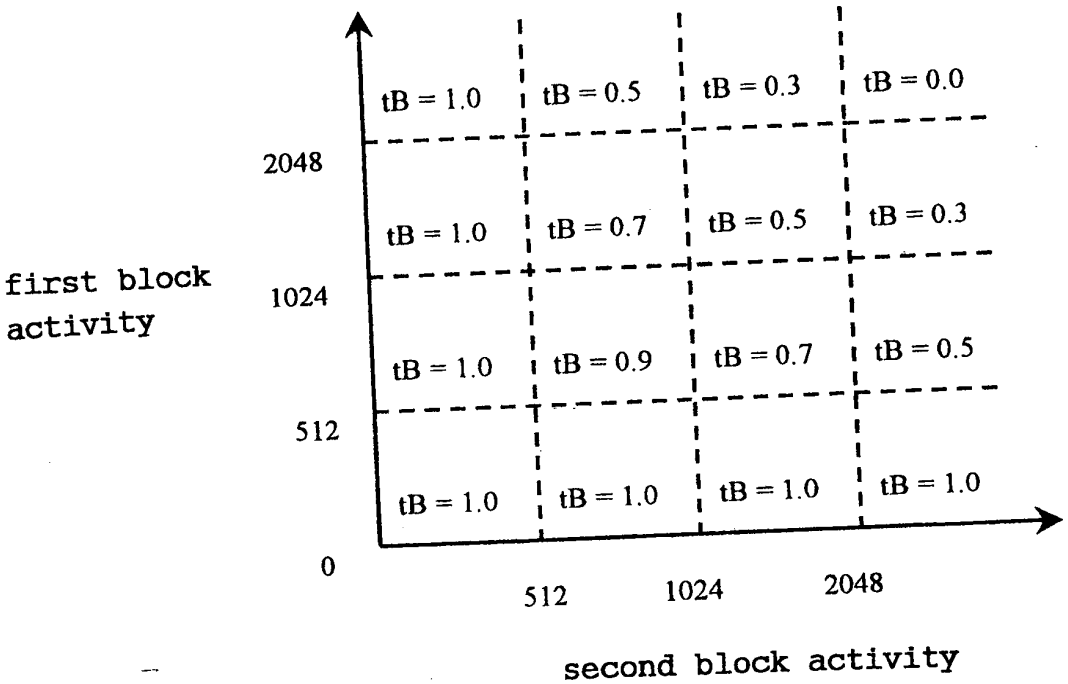


Fig. 16

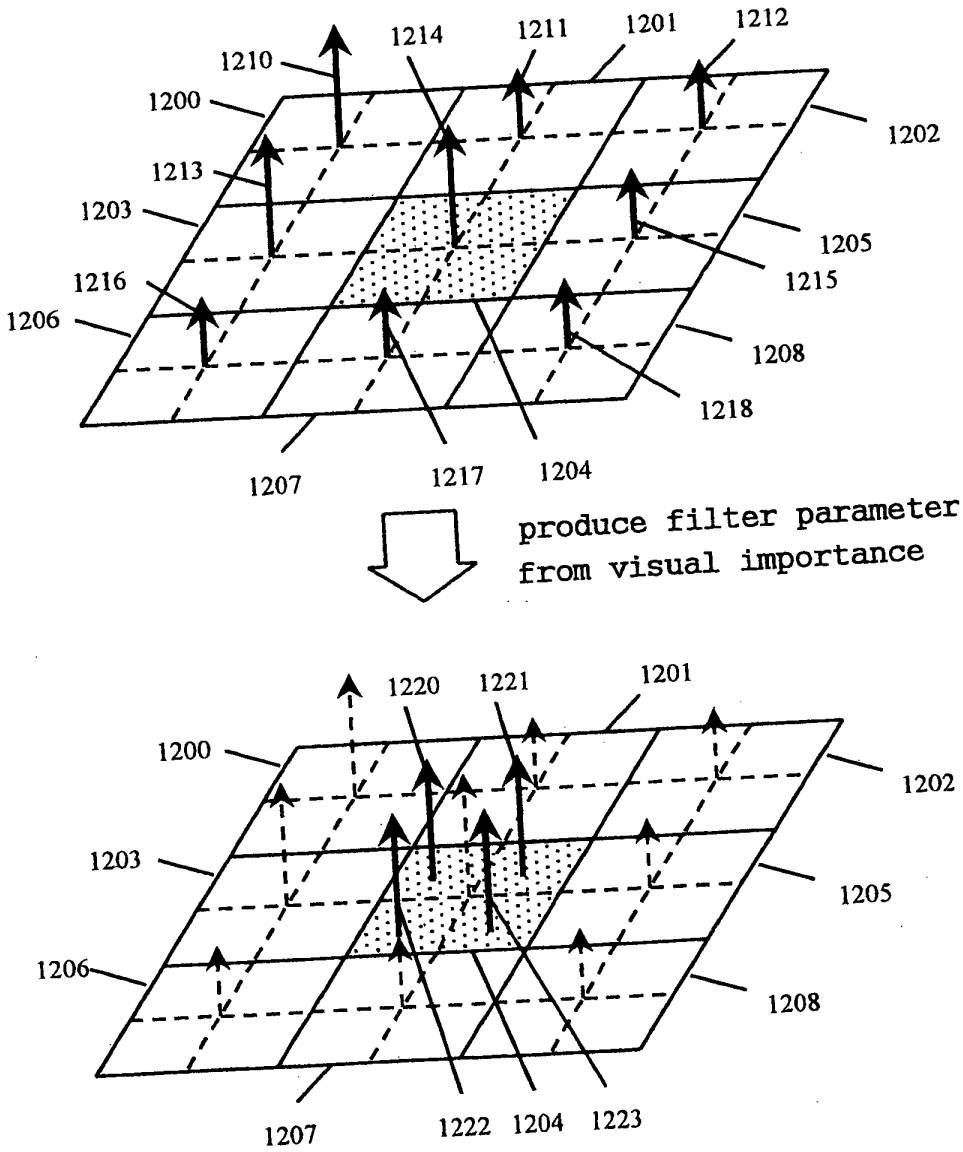


Fig. 17

	tP = 0.0	0.0 < tP < 0.5	0.5 ≦ tP < 1.0	tP = 1.0
filter coefficient	filter coefficient 1 $\begin{pmatrix} 1, 2, 1 \\ 2, 4, 2 \\ 1, 2, 1 \end{pmatrix}$	filter coefficient 2 $\begin{pmatrix} 1, 4, \\ 4, 16, 4 \\ 1, 4, \end{pmatrix}$	filter coefficient 3 $\begin{pmatrix} 1, 8, \\ 8, 64, 8 \\ 1, 8, \end{pmatrix}$	filter coefficient 4 $\begin{pmatrix} 0, 0, 0 \\ 0, 1, 0 \\ 0, 0, 0 \end{pmatrix}$

Fig. 18

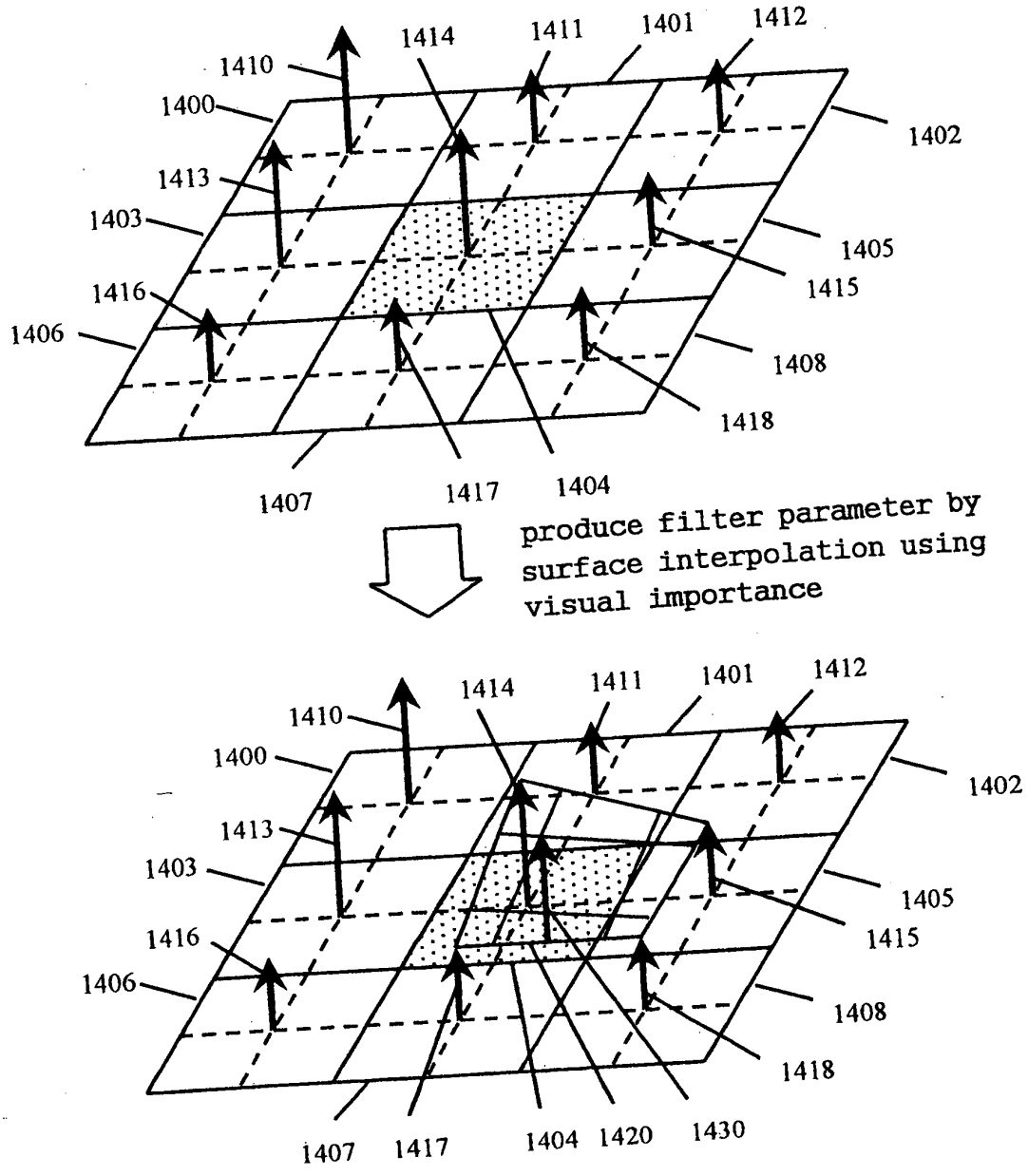


Fig. 19

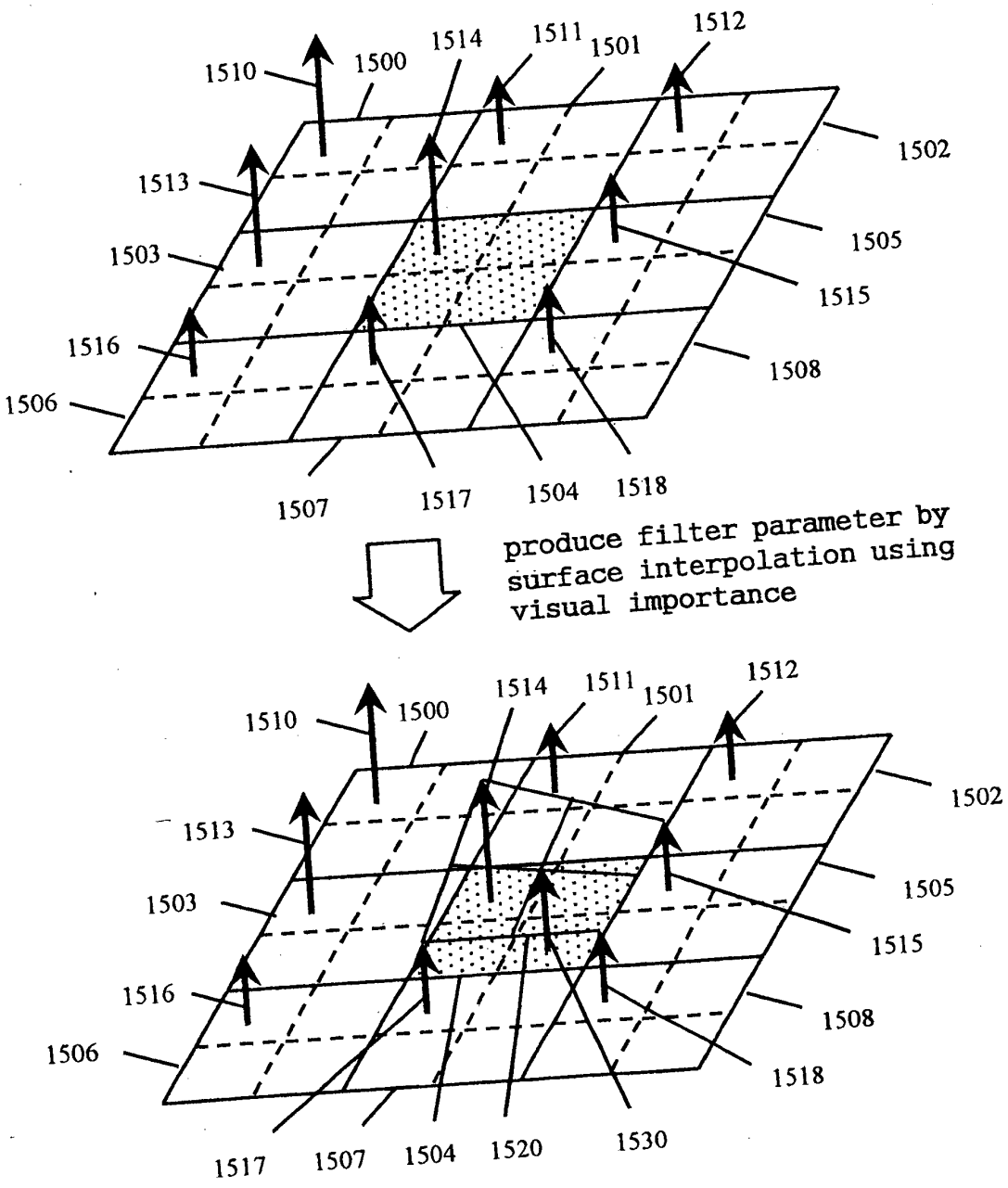


Fig. 20

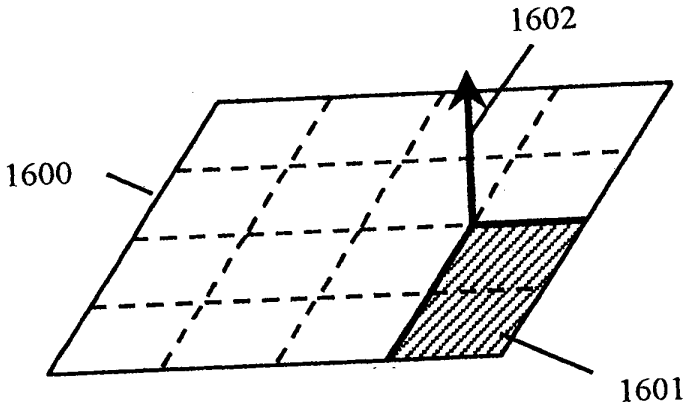


Fig. 21 (a)

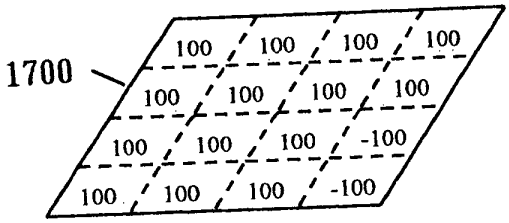


Fig. 21 (b)

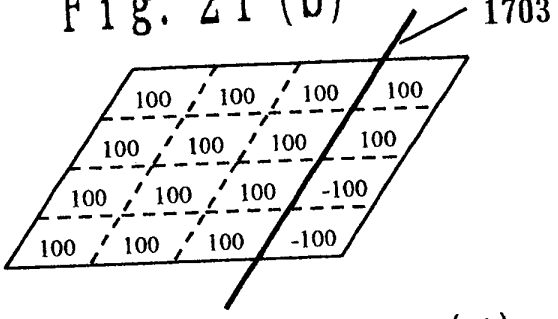


Fig. 21 (c)

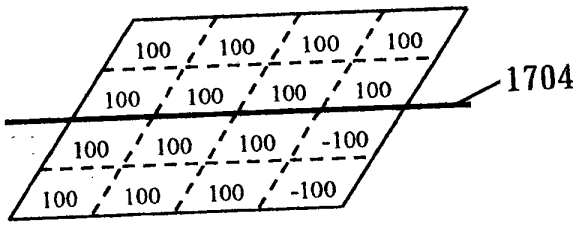


Fig. 21 (d)

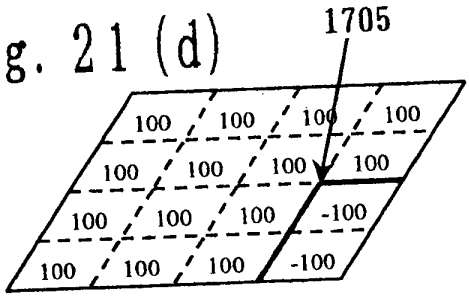


Fig. 22 (a)

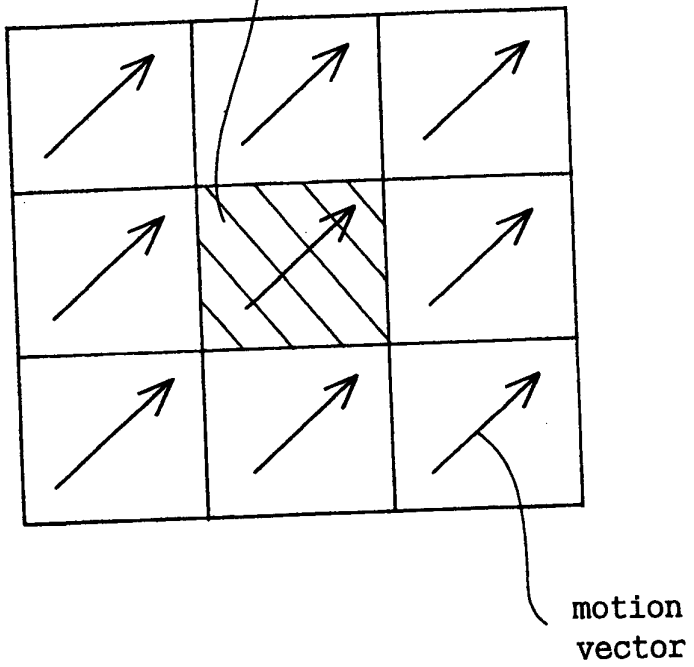


Fig. 22 (b)